

1 **What is claimed is:**

- 2 1. An easy-to-start structure for a D.C. brushless motor, comprising:
- 3 a base comprising a through-hole having an end, a support section
- 4 being provided in the end of the through-hole, plural windings and an
- 5 IC control means being mounted to the base, at least one positioning
- 6 member being mounted to the base and located between said plural
- 7 windings; and
- 8 a rotor comprising a shaft and a permanent ring magnet having a
- 9 north pole and a south pole, each of the south pole and the north pole
- 10 having a strong magnetic area, the shaft being rotatably held by the
- 11 support section;
- 12 said at least one positioning member being made of a material
- 13 capable of attracting and thus retaining one of the strong magnetic areas
- 14 of the permanent ring magnet in a position proximal to said at least one
- 15 positioning member when the rotor stops.
- 16 2. The easy-to-start structure for a D.C. brush less motor as claimed in
- 17 claim 1, further comprising a support element mounted to another end
- 18 of the through-hole, the support element comprising a second support
- 19 section for rotatably holding an end of the shaft of the rotor.
- 20 3. The easy-to-start structure for a D.C. brushless motor as claimed in
- 21 claim 1, wherein the base has at least one positioning groove for
- 22 receiving said at least one positioning member.
- 23 4. The easy-to-start structure for a D.C. brushless motor as claimed in
- 24 claim 1, wherein the IC control means is located between two of said
- 25 plural windings that are adjacent to each other.
- 26 5. The easy-to-start structure for a D.C. brushless motor as claimed in
- 27 claim 1, wherein the rotor has blades mounted thereon.
- 28 6. The easy-to-start structure for a D.C. brushless motor as claimed in
- 29 claim 2, wherein the base comprises at least one engaging hole, and

1 wherein the support element comprises at least one engaging piece for
2 engaging with said at least one engaging hole.

3 7. An easy-to-start structure for a D.C. brushless motor, comprising:

4 a base comprising a through-hole having an end, a support section
5 being provided in the end of the through-hole, plural windings and an
6 IC control means being mounted to the base,;

7 a rotor comprising a shaft and a permanent ring magnet having a
8 north pole and a south pole, each of the south pole and the north pole
9 having a strong magnetic area, the shaft being rotatably held by the
10 support section; and

11 a casing mounted around the base, the casing comprising at least
12 one positioning member provide thereon, said at least one positioning
13 member being located between said plural windings;

14 said at least one positioning member being made of a material
15 capable of attracting and thus retaining one of the strong magnetic areas
16 of the permanent ring magnet in a position proximal to said at least one
17 positioning member when the rotor stops.

18 8. The easy-to-start structure for a D.C. brushless motor as claimed in
19 claim 7, wherein the base further comprises at least one rib on an outer
20 wall thereof, and wherein the casing is tightly fitted to said at least one
21 rib.

22 9. The easy-to-start structure for a D.C. brushless motor as claimed in
23 claim 7, wherein said at least one positioning member being directly
24 formed on the casing by means of pressing.

25 10. The easy-to-start structure for a D.C. brushless motor as claimed in
26 claim 7, further comprising a support element mounted to another end
27 of the through-hole, the support element comprising a second support
28 section for rotatably holding an end of the shaft of the rotor.

- 1 11. The easy-to-start structure for a D.C. brushless motor as claimed in
2 claim 7, wherein the IC control means is located between two of said
3 plural windings that are adjacent to each other.
- 4 12. The easy-to-start structure for a D.C. brushless motor as claimed in
5 claim 10, wherein the base comprises at least one engaging hole, and
6 wherein the support element comprises at least one engaging piece for
7 engaging with said at least one engaging hole.
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